

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	0	("2008/0043791").URPN.	USPAT	OR	ON	2008/05/28 17:36
S1	1	("20080043791").PN.	US-PGPUB; USPAT	OR	OFF	2008/05/28 17:36
S3	1	(VCSEL or (vertical near1 cavity near2 surface near2 emit\$4 near2 light)) and heatspreader	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:20
S4	3	(VCSEL or (vertical near1 cavity near2 surface near2 emit\$4 near2 light) or (vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and heatspreader	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:24
S5	173	((Abram near1 Richard) or (Ferguson near1 Allister) or (Riis near1 Erling)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 12:25
S6	5	((("5,627,853") or ("6,097,742") or ("20030039284") or ("6,778,582") or ("20040013154")).PN.	US-PGPUB; USPAT	OR	OFF	2008/06/12 13:50
S8	198	(VCSEL or (vertical near1 cavity near2 surface near2 emit\$4 near2 light) or (vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and (heat near1 spread\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:09
S7	208	(VCSEL or (vertical near1 cavity near2 surface near2 emit\$4 near2 light) or (vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and (heat near2 spread\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:09

S10	9	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL).bstx. and (heat near1 spread\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:10
S9	33	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and (heat near1 spread\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:10
S12	23	S9 and (diamond)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:50
S11	78	(VCSEL or (vertical near1 cavity near2 surface near2 emit\$4 near2 light) or (vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and (heat near1 spread\$3) and (diamond)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:50
S14	36	S11 and (TEC or cool\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:51
S13	13	S9 and (diamond) and (TEC or cool\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 14:51
S15	8	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) with diamond) and (TEC or cool \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 17:15

S16	23	("20020090016"   "5136603"   "5285466"   "5331658"   "5475701"   "5577064"   "5606572"   "5642371"   "5648979"   "5732101"   "5748661"   "5757836"   "5757837"   "5774486"   "5812582"   "5821566"   "5892786"   "5914973"   "5953355"   "6023485"   "6037644"   "6057560"   "6151344"). PN. OR ("6782019"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/12 17:26
S17	15	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) with diamond)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 17:34
S18	18	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) same diamond)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 17:43
S19	3	S18 not S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 17:44
S20	13	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) AND diamond) and (TEC or cool \$4) and (mirror or reflect \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/12 17:46
S21	2	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or VCSEL) and ((heat near1 spread\$3) AND diamond) and (TEC or cool\$4) and (mirror or reflect\$3) and (filter or etalon) and piezoelectric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/16 14:57

S23	43	(heat near1 spread\$3) AND (anti-reflect\$3 or antireflect\$3) and VCSEL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/16 15:03
S22	297	(heat near1 spread\$3) AND (anti-reflect\$3 or antireflect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/16 15:03
S24	8	(heat near1 spread\$3) AND ((anti-reflect\$3 or antireflect\$3) with (index or indice)) and VCSEL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/16 16:52
S25	8	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) same diamond) and (mirror or reflect\$3) AND (anti-reflect \$3 or antireflect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 11:37
S26	8	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and ((heat near1 spread\$3) and diamond) and (mirror or reflect\$3) AND (anti-reflect \$3 or antireflect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:13
S28	1078	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:15
S27	70	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL) and (mirror or reflect\$3) AND (anti-reflect \$3 or antireflect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:15

S29	499	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3)	USPAT	OR	ON	2008/06/17 14:23
S30	75	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent	USPAT	OR	ON	2008/06/17 14:25
S31	56	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:26
S32	15	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:28
S34	8	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:31
S33	8	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari\$at\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:31

S35	6	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3 and etalon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:35
S36	1	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3 and etalon and (heat near1 spread \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:36
S37	6	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3 and etalon and brewster	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:49
S38	4	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and etalon and (heat near1 spread\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 14:56
S40	54	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and etalon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 15:00
S39	441	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and etalon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 15:00

S41	1	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3 and scann\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 17:50
S43	1	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and (mirror or reflect\$3) AND (anti-reflect\$3 or antireflect\$3) and birefringent and lasing and piezoelectric and polari?at\$3 and scann\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 17:51
S42	49	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and scann\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 17:51
L1	2	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and (second near2 piezoelectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:12
L2	10	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL or vcsel) and (second near2 piezoelectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:13
L3	104	(vcsel) and (piezoelectric) and "372"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:15
L4	120	(vcsel) and (piezoelectric or electrooptic) and "372"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:17

L7	2	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and (second near2 (piezoelectric or electrooptic or PZT))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:24
L6	121	(vcSEL) and (piezoelectric or electrooptic or PZT) and "372"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:24
L8	2	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) and ((second or plural\$4 or multi or two) near1 (piezoelectric or electrooptic or PZT))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:25
L9	6	( VCSEL ) and ((second or plural\$4 or multi or two) near1 (piezoelectric or electrooptic or PZT))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 10:26
L10	1	("20030099264").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/18 14:36
L11	7	((vertical near1 external near2 cavity near2 surface near2 emit\$4 near2 light) or VECSEL ) SAME scann \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/18 15:26

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